



September 2023

Press Release

Post Quantum Cryptography Framework for Energy Aware Contexts

The **PQ-REACT** (Post Quantum Cryptography Framework for Energy Aware Contexts) project, has successfully kicked off. PQ-REACT, a joint European initiative funded by the European Commission under the Horizon Europe Research & Innovation programme, and it officially started on September 1st, 2023.

Public key cryptography has developed into an essential part of the digital communication infrastructure for the world during the past three decades. Mobile phones, internet shopping, social networks, and cloud computing are just a few of the plethora of different apps supported by these networks that are crucial to our economy, security, and everyday life. In such a connected world, it is crucial to communicate securely. Since currently no quantum computers are available the quantum threat remains theoretical. However, the need to address this issue as soon as possible is imperative. In this regard, the **National Institute of Standards and Technology (NIST)** introduced an effort to identify cryptographic algorithms resistant to quantum computer attacks by 2022 and make them accessible by 2024.

PQ-REACT's primary objective, is to design, build, and evaluate a framework for a simpler and more quick transition from classical to post-quantum cryptography for a broad spectrum of contexts and usage domains, by leveraging Europe's most potent quantum infrastructure.



**Funded by
the European Union**

PQ-REACT will work toward its objectives with its highly qualified consortium offering its broad spectrum of expertise and technical skills coordinated by Dr. Akis Kourtis ([National Center for Scientific Research "Demokritos" NCSR, Greece](#)). The consortium comprises **12** partners across **7** EU member states (Greece, Spain, Germany, Italy, Estonia, Poland and Bulgaria), including Universities, Research Centers, IT companies and SMEs.



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